IUCF Tests of Cincinnati Scintillation Detector

July 18, 2003

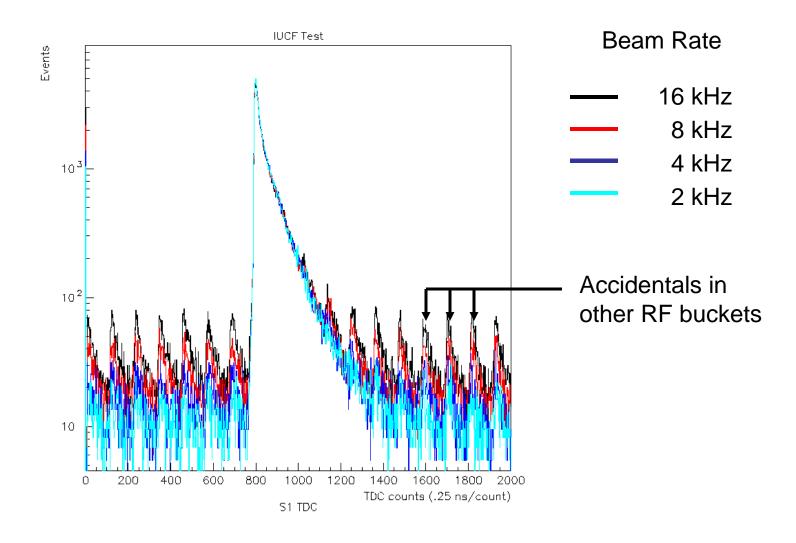




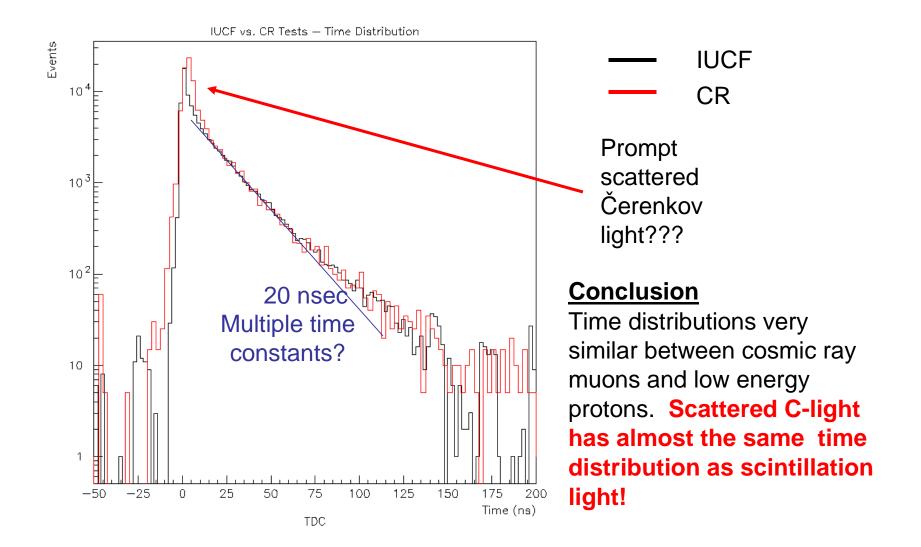




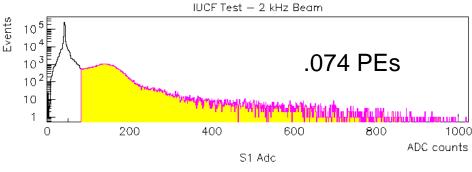
Scintillation Light Time Distribution

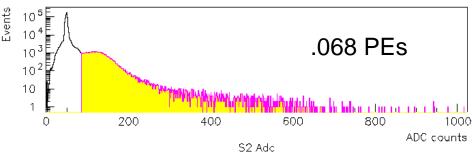


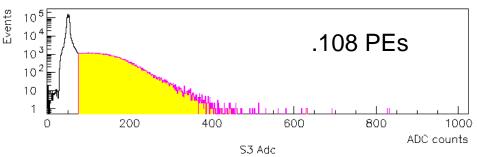
IUCF vs. CR Time Distribution



Photoelectrons







IUCF Tests:

PEs/cm = 25

PEs/MeV 5

Cosmic Ray Tests

PEs/cm = 32

PEs/MeV 17

Additional from scattered C-light?

Mysteries

Cincinnati Scintillation Detector:

- Why do relativistic particles give so much more light? Scattering?
- Do we really have multiple time constants?

IU Apparatus

Marcol 7 measurements were internally inconsistent. Needs another look.

We are not at the end of the tunnel yet!